

SEQUENCE LISTING



<110> Sugimoto, Mayumi
Furuoka, Hidefumi
Sugimoto, Yoshikazu
<120> Gene Diagnosis for Bovine Hsp70 Deficiency
<130> 03279/HG
<140> US 10/609,181
<141> 2003-06-26
<160> 8

<210> 1
<211> 12988
<212> DNA
<213> Bovine

<400> 1

acgtcggtga tcctgtggc cgtttcagg tttgaagctt atctcgagc cgaaaaggca 60
gggcaccggc atggcgaaaa acatggctat cggcatcgac ctggcacca cctactcctg 120
cgttaggggtg ttccagcactg gcaaggtgga gatcatcgcc aacgaccagg gcaaccgcac 180
cacccccagc tacgtggcct tcaccgatac cgagcggctc atcggcgatg cggccaagaa 240
ccaggtggcg ctgaacccgc agaacacggt gttcgacgctg aagcggctga tcggccgcaa 300
gttcggagac ccgggttgtc agtcggacat gaagcactgg ctttccgctg tcatcaacga 360
cgagagacaag cctaaggtgc aggtgagcta caaaggggag accaaggcgt tctacccgga 420
ggagatctcg tcgatggtgc tgaccaagat gaaggagatc gccgaggcgt acctggccaa 480
cccggtgacc aacgcgggtga tcaccgtgcc ggcctacttc aacgactcgac agcggcaggc 540
caccaaggac gcgggggtga tcgcggggct gaacgtgctg aggatcatca acgagcccac 600
ggccgcccgc atgcctacg gcctggacag gacggcaag gggagcgca acgtgctcat 660
ctttgatctg ggagggggca cggtcgacgt gtccatcctg acgatcgacg acggcatctt 720
cgaggtgaag gccacggccg gggacacgca cctggcggg gaggactcg acaacaggct 780

ggtgaaccac ttcgtggagg agttcaagag gaagcacaag aaggacatca gccagaacaa 840
gcgggccgtg aggccgctgc gcaccgcattcgagcggcc aagagaacct tgtcgccag 900
cacccaggcc agcctggaga tcgactccct gttcgagggc atcgacttct acacgtccat 960
caccagggcg cggttcgagg agctgtgctc cgacctgttc cggagcaccc tggagcccgt 1020
ggagaaggcg ctacgcgacg ccaagctgga caaggcgcag atccacgacc tggccttgtt 1080
ggggggctcc acccgcatcc ccaaggtgca gaagctgctc caggacttct tcaacggcgc 1140
cgacctaacc aagagcatca accccgacga ggcggtggcg tacggggcgg cggtgcaggc 1200
ggccatcctg atggggaca agtcggagaa cgtgcaggac ctgctgttgc tggacgtggc 1260
tcccctgtcg ctggactgg agacggccgg aggcgtgatg accgcctga tcaagcgcaa 1320
ctccaccatc cccacgaagc agacgcagat cttcaccacc tactcggaca accagccgg 1380
cgtgctgatc caggtgtacg agggcgagag ggcgcatacg cgggacaaca acctgctggg 1440
gcgcggctcgag ctgagcggca tcccgcggc cccgcgggg gtgcggcaga tcgaggtgac 1500
cttcgacatc gacgccaatg gcattctgaa cgtcacggcc acggacaaga gcacggcaa 1560
ggccaacaag atcaccatca ccaacgacaa gggccggctg agcaaggagg agatcgagcg 1620
catggtgca gaggcggaaa agtacaaggc ggaggacgag gtccagcgcg agagggtgtc 1680
tgccaagaac gcgcggagt cgtacgcctt caacatgaag agcgcgtgg aggatgaggg 1740
gctgaaggc aagatcagcg aggcggacaa gaagaaggtg ctggacaagt gccaggaggt 1800
gatttcctgg ctggacgcca acaccttggc ggagaaggac gagtttgc acaagagggaa 1860
ggagctggag caggtgtta accccatcat cagcagactg taccagggg cggcggccc 1920
cgccccctggc ggctttgggg ctcagggccc taaagggggc tctgggtctg gccccaccat 1980
tgaggaggtg gatttagaat cttccctgg attgctcatg ttgttatgg agactgttgg 2040
gatccaaggc tttgcattgc ctttatatc ttcccttcat cagccatcag ctatgcaagc 2100
tggtttagat gttgaactgt ccctttatg aaatttagaa ctcttttc cagagtctta 2160
agtatagagc tgaatgtata gtgcgcattt ttgtcagttt ctttttagt tattcatgcc 2220
aaactcaagc tattttcac cgcgttctgt ttacttccaa gtaaataaac tcaaataatt 2280
cgagtgtatgt ttgttttattt tgaagttaga aggtctgtt gaggttgtct 2340
gttttacagt atccaaaaat gaaactgcaat tggccttta gataaggtca gggatccaga 2400
aaagaataca gcattatgac acatttctt taggcaaata gtatccttgg gaaacataaa 2460
gctgctcatt tgaatggttt tggttgtt gaaacataaa gttaagggtt actggcatgg 2520

tagcctcaag gttggcgaaa gggccatac tttacgggtg aactcaaaag gtgcctgttag 2580
tggcagtatt cctggagaag caggcaaata agaggcagtt agattggaag tcatgggtgc 2640
tgctgcttgt tagtacaggt gataccttag agcctgtta cttaatctag attcagcatg 2700
aaagagaagg tgagtctaa attggcactg aggaaatgtg aattctagta ctggcttgcc 2760
taattatgca tgattgcgtt agccactgtg atcctcaagt ctcacagttt aaaatggaag 2820
ggtttggcct gatgctaaag tttaatttct taaaagaatg ctgagataaa aatgctgcgt 2880
ttccagtagt gtttacctac attttaagta tcccagttag taccttagag aggtgtcact 2940
gtttcatgcc ccagcaggag gacggacccc cagtattca gtgtgcttac ctaccaggta 3000
ctgtaccagg ggcctttac atgtttatta attccattc caccatattg agtataaggca 3060
gtgtttggct tccacaggtg gacgtatgtg gagacttaaa aggcaactggc ttaaatttat 3120
tacaaggta aaaaaacggg ttcagggaaat atgttgaacc tggattccaa ctgaggttt 3180
attgtttttt gctctgctgc ccacaggcgt ttgtcatgt ctgggtctgg gtctacccta 3240
ggtttcacaa tcgtaatct ttctgcttg acaatgtata atcctaaaca actatgtcag 3300
ataatacgtt taatgttata ggttaatatt tggtaattt agaagagtga ttgaaaaaac 3360
ctgcagcact gcaccaggaa gccttaacca caggcttcct tcccctgcag atgcttcttg 3420
ctttaactgt tgctagaatt ctgggaagag tcccctccac agcctgtttg tggaaaaagg 3480
cctggcacaa tcctcactgac ttggggagtg agcccctttta aaaggcaatt ttatctgggg 3540
attacagaga ttctggaaacc aggtggaaat ggtgattgca caaactggc tagggaccac 3600
taaattctac actttaaaat ggttatgtt aattcaccaa aagtagttt taaaaaaaaa 3660
ttgtgtcaac attctggaaa aacactttgt gagtgtgtt atctcaaggc ccaccaaattc 3720
tttcaactaa tacttgcatt agaagaaact cttaatggta ataacatgtt gaggttagacc 3780
tgtccctgtt agttggaaa tggaaatcta agagatgcgtt agacttgcag gccagcatat 3840
aaacacaggt ttaatcctca gggttaggtga actgtgcac ggtggactgt agccacaatg 3900
tgagtccatcc ttcatgggaa tatgcgggttga acacacgacc tcctctaccc ccacagaact 3960
gcagttaccat ctgtgactgt catctgcaga taatacaata actcttgcag cagtcaccct 4020
acttttagggg gaggtggcaa gggatgggaa gggtgggttga gagattggaa aagacctaac 4080
aaacacccctt gataagagag attagggaaa tctccagaaaa ttaatttggaa gaaaatgagt 4140
tcctatggct aaaccagtttta agattatcag ggtgtttat taggaagtca atatataatg 4200
ttactgcaca gtcccttgca cagactactt tgaaaataat caccttcaac atgaagctga 4260

gggacaaaga gaatcaaag tcattcctgg agaagggtgat tgcggttagca gcaagaactc 4320
gggggtggggg tgggggggag gaggtgcac aaggaaaaat aatggtcgat caaaaagcat 4380
ttttaaaatc taacacccttc cctaattcca atctcaccta ctccctatg ccagccctga 4440
aaaatttagat tgttatggta atgtgactga ttttaaatcc aagatactac gttattaaca 4500
catagttact cctgggtttt aactggattc tgtcattaaa aatgaaaagg ataccaaagc 4560
aataacataa ttgtgagaga agtgcacaga agcatgggct ttcagttaaa ataaatggtt 4620
ttcaggtgaa aagtcaacac tggcgatttc tgagggggcg agcctcaagg taggaataag 4680
aaagggcaac tgtcatcatt cttaattcca actgatcacc ttaaatccat ccccaagggt 4740
caccgc当地 gtatccagtg cagttcagta ggatatacg accccatcag tcctctccta 4800
actccagctc acgttagagac gttaagggtt caggtatcgc agcgaattcg ggatgccgag 4860
ccaacctgcc ccaccccacg ggccgc当地 cccccc当地 ggaaatc当地 ggaaagggca 4920
cggc当地 ggaa ggagggaggg cacacaggaa atacaggta agggggc当地 ggagtccaga 4980
agatcagaat cacccagag gatcttccac cttaattccct gtccagacgt cccaggaga 5040
gccagggact agattc当地 gatggacgg cggc当地 agag aagacagcaa gctccagct 5100
gtagccaatc cctgcccagg gctgc当地 cccgc当地 ggccgt当地 accttctagc 5160
ttctggcaac cccaatccat cc当地 tactact tttgtcaggta acaaaccctgt ccagtgttt 5220
cacccaaacat attagcgagt ttgagggaaa ctctaaaggta ctctc当地 ctgactc当地 5280
taatcccatt ttgaaaaaga accgaagaac gccggc当地 gccaggcaac tccgc当地 5340
gccccgccc当地 caggccccgc cccgctccat cgggtctta ctc当地 ctgg cccctt当地 5400
cggtt当地 cggg ctgtgtcagg aacttctgg agctctctgg gctc当地 agggc ggactt当地 5460
tcgttaggaac actcttcaac aaacaaactg ccccacccaa gtctccctcc ct当地 ctgt 5520
taacagccga cc当地 ctgtg ataacggaa ggggagacgg tcctgggaga acctggaagg 5580
gccgaaaagg ttgaaagtgtg ggtgtt当地 cg ggggagc当地 cggagctggg ggtgc当地 5640
taggc当地 gag tcagaagcaa cagcctggag gt当地 ctcc gc当地 aggtcaca caccccatg 5700
gtgc当地 acgt agccctggca ttcaactt当地 actgtc当地 atggtt当地 ct当地 ct当地 5760
tttatagagc gtgaaacgat agggtt当地 tgccagc当地 gagaggagtc caaaagtagaa 5820
agtatgc当地 catgttagtt caatcaccgg ttccgtaatt acctgtctgg gt当地 atctggc 5880
caagccacga aacctctgaa cctttgtgct catctt当地 aacagaaagg tttggctgaa 5940
ggactctgcc taaaaatctg aagatagttt ttatggtaaa cc当地 aaagtat tactatcata 6000

gtcctggtag taatccccaa cttgttaagc acctcagtaa gaaatgattt agagatgaga 6060
ctcgagagag tgttacttca ataaaagaat gaagggcaca aactttgag tacaactctg 6120
tcacagccac tgaactagtc tttaaatat tgttttgta atccttgatg gtatcatact 6180
ataaaataaa tattaattct aatttataca acttgtttaa tttagttcat ttacacgtac 6240
ttcattgtta agaaagaaaa acagcttcaa caaggagata gagtccagat acaaaccag 6300
gtcttgcctt tcccagttt ttccccatg ctgctggaaa ttagcagagt tcccaggcct 6360
ttgccacact tccctgggtt atcagagggt gaagaatctg cccacagtgc aagagacctg 6420
ggttctatcc ctgagtagag aagatcccct ggagaaggga atggcgaccc actccagtgt 6480
tcttgtgtgg aaaatcccat gggcagagga gcctggccgg ctacagtcca cggggtcaca 6540
aaggagtctgg acatgactgg gtgactaaca ctgtcaggcc tttccctt gaaggttaca 6600
aatgcctggc tcagggctcg cctgggtgct catcgtaaa gaatccgcct gccaatgcag 6660
gagacacagg ttcttattcct gatccagggaa gattccaca tgtcctcggtt ccaaggagca 6720
gctaagcctg tgtgccacaa ctattgagca cgtacagccc attctctgaa acaagagaag 6780
ccaccacaat gagaagcctg cttacccca actcaactag agaatagcct ctgctcacca 6840
caactagaga aaagcctctg tagcagcaga gatctagcac agccaaaaat aaaatgaaaa 6900
aatgcctggc tctaggtgtc acattgttct ctttgcttc tgtctgaaaa acctagaatt 6960
atactgtctt taaaaaacaat atagacttga gaaaaaccat actagatgaa aaactgttagg 7020
aaaaaggaga gagaacaaaa aaagatcctg caacttcagg gtgaggacgg ctccccccgc 7080
ccacccact tccttccctt ggcagttagc attttggca gtctctctcc catccccaaac 7140
ccttaaattt taccctgtca cccggcagg cttggcaac cttaatcttgcatttccaa 7200
acactaaacc cgattttaaa aaactaatttcaaaatgcat caaataaaatgttgtaaaaatg 7260
ctcttggat tcttaaaatc tccttgctgc tgctgtact aagtgccttc agttgtgtcc 7320
aactctgtgc aaccccacag acggaagccc accaggctcc ccaatccctg ggattctcca 7380
ggcaagaaca ctggagtggg ttgccatttc cttctccaaat gcatgaaaatg gaaaagtgaa 7440
agtgaagtttgc ttcaggagtc cgactcttag cgaccccatg gactgcagcc taccaggctc 7500
ctccgttcat gggattttcc aggcaagaac actggagtgg gttgccatttgc cttcttagag 7560
ttacactatt acactcatttgc atcatatatc gaactataca tttgatcaac tgcttcaagt 7620
ctagtcataca tttctgttga aagctcagtc atatacttgg taatacaaga aataataatc 7680
ttgtgaaaca agcaaaaatac aaatggata gtaataaca ttagtggaaac taaaaggaga 7740

tatTTtagcc atgaggcctcc cacaccagtt tttttaaag attgtcaaga ctagggaatg 7800
ggtaCTtaga gcagaaaatct gatTTTcat gtggTTcaaa tgtgttacat taaaggattt 7860
atcaggtaca aaaatacagc attcagTTg aattatAGCA cagCTATCtC CCTGAGATGC 7920
tgtcaagagt cttgcagTTg tgtAGCAGGG CCTTCTCAT tatAGAGATC tcAGAAGTCA 7980
atAGGTGAAT agcCTGATTA tcATTAAAG cTTATGAAAG ttGTTAAGGC ttAGATATGG 8040
tcaattACAT CCTCCAAACCC CATTGAAGGC ATGCACACGC GTGCGCACGC GCGCACACAC 8100
acACACACAC ACACACACGC TGCTAAATGG TCATAACCCA AATCTCCTTA GGCACCAATT 8160
aaACCggTAC CTGAGTTCT GCCTTGGAA GTGTCCAGTG TAAAGGAAG ACAAAATTCA 8220
agAGACTCTC CTCA TAGGAA ATGGAAAAGA AATA CGATA TTAGGTTTC CGGGTCATCC 8280
acAGAGAGAG ACAACGCAAA GTGTAGGTTA ATACAGTGTG TAGCTGACTG CTTGATTCA 8340
gaaaaACAGC ATTTCAGT GGCTCCCCA CTCCCTCCACC CCAGCAACAG CAAGATTGA 8400
ggeCCTATCA CCTGTCTCCC TGTGAGCAG TGGAGACAAT GATGCCCTT GCTCAAGCC 8460
aatAGAGGAA GAGAACtgca AATTTGGAG AGGAGAGCgA ATCCAGAATT CCTGCTGGTA 8520
gcAGCTGATG GGGGAGAAGG CAATGGCAAC CCACTCCAGT GTTCTGCCT GGAGAATCCC 8580
agggacgggg gagCCTGGTG ggCTGCTGTC TCTGGGTGc cacAGAGTcG gacacaACTG 8640
aagtGACTTA gcAGTAGCAG cAGCAGCTGA TGGTAGGAA gacAGGGAG aggggatGAG 8700
gttaaggact tCTCTGGAGG tGAACACTTC TCTGGAGTG TTCACAAACT ggGTGGCTAA 8760
gatggacGTT TGGGAATCC CCTTCAGAT ACTGCATAAA GAGATGGAAA ATTCCtGAAG 8820
tttaaccAGT ttGACTAGAT TAAGGAGGTG ATTCAATTGGA GAGCCACACC TGAATGTAAA 8880
aaaAGTTATC acCTACCTGC acAGTgAAAG AtaaaaATAt tgCTTAACA AATCTGTATA 8940
tCTGATTAAC CTGAACAAAT TATAAAATAA ACTGAATAcc CTCAgATTc AGGAAGAGGT 9000
gtttgatgaa TGGCTGTGCG CGCGCGCG CGTGTGTG TacGTGTGTA AACGTCAGTT 9060
aAGCAAAAGT gttCAAAGCG AgATTCCTC CCTTATCAG AAATTGCCTC CTCAGGTACT 9120
tCTCTGGTG TCCAGAGGG CTAAGACTCT GTAGAGGAGA ATGCAGGCGG CCTGGGTG 9180
atCTCTGGTC AAGAAAATAG ATCCCACATG CTACAACtAA GATTGACCAT GCTACAACtA 9240
aggCTTAGCT AttaATTTA AAACAACAAC AACAAAACCC CACAACtGCC TCCtCCGACT 9300
tgtGCTGTtA TGTtTCTAT GCTCAAGACA TGTGGATACA GTAATGAGTC TATTCTATGG 9360
gttGTGAATC CCCTACTA TGGCTTAAt GTCCTCACA TTTCACTT AGGTGCCTAA 9420
taAGGGATCT TGCATTGCC AtAAAGGAAG AAGAAACAAA AGCCAAAATA AATTACCAA 9480

tgtcaactgta tttaaaacag gaaggaggct aacaacagaa agctgaaatc taggataaaa 9540
agttaaatgg acgaattaag tacacagcaa acaacacctgaa cttttagagg agatagaacc 9600
taggtcctgc caacccttct cacccctccag catcattcca gactgttac aatggggcac 9660
ccgccaacca actatatagc atgctttca aacaggactg aacgctcccc cacccccacc 9720
ctcgcgaggct caccaccaca ccacattac taaaaagttag tggacagcct aggagccgca 9780
aatgacaagg cagaagaccg aattcggac tcaggttaat ccaggcacca ctgatcatcc 9840
gaggctgaac caggaattta aaaggcacag aggagggag gggtgcgtcc gcacctgggg 9900
ctggaaaga tgaggaatcc ggagaagcgc aaaggacagc taaatatcta tggaaaatat 9960
tttcttc aagcccagtc cagcccgagg agaaagggag cagctctggg cggggacagg 10020
ggcgctgtgg ctccagccct gcccttccca cgctcccccg accgagcagg tcccttctaa 10080
ggcgttggga accttctaca atctaaaaac catataccta attgatttc ttctgaaaat 10140
aaaaatttcc cctcccatct gaataggct aaagaggagc caaaacttaa acagctcaa 10200
ctctctcctt ttccttccca tttaaaaat aagatggaa aagcgccgca gatgaccaag 10260
gcatttctcg gacagcccg ccgctcgccg agccagccca aacgtggctg cttccatcag 10320
cgtagccctc cgatcactct cttggccca cagatagcca accctttcg agaaactcgg 10380
gaactttctg tattttggct gtcccgccag tcgtgtagcc ctttaattcta ctttaaacca 10440
ccaaactaat ttgagcccg agatcctctc accgcctac aattaattac aagcccaggg 10500
ctgatccttc cagtcgactc caaactactt ggctggctgg tcgccaggaa accagagaca 10560
gagtgggtgg accttcccg cccctctccc cctctcctta ggactcctgt ttcctccagc 10620
gaatcctaga agagtctgga gagttctggg aggagaggca tccagggcgc tgattggttc 10680
cagaaagcca gggggcagga cttgaggcga aaccctgga atattccga cctggcagcc 10740
ccactgagct cggtcattgg ctgacgaagg gaaaaggcgg cggggcttga tgaagaatta 10800
taaacacaga gccgcctgag gagaacacgc agcctggaga gagctgataa aacttacggc 10860
ttagtccgtg agagcagctt ccgcagaccc gctatctcca aggaccgccc cgagggcac 10920
cagagcgttc agtttcggg ttccgaaaag cccgagcttc tcgtgcaga tcctcttcac 10980
cgatttcagg tttgaagctt atctcgagc cggaaaagca gggcaccggc atggcgaaaa 11040
acacagctat cggcatcgac ctggccacca cctactcctg cgtaggggtg ttccagcact 11100
gcaagggtgga gatcatcgcc aacgaccagg gcaaccgcac caccggcact tacgtggcct 11160
tcaccgatac cgagcggctc atcggagatg cggccaagaa ccaggtggcg ctgaaccgc 11220

agaacacggt gttcgacgctg aagcggctga tcggccgcaa gttcggagac ccgggtggtgc 11280
agtccggacat gaagcactgg ccttcggcg tcatcaacga cggagacaag cctaagggtgc 11340
aggtagctta caagggggag accaaggcgt tctaccggta ggagatctcg tcgatggtgc 11400
tgaccaagat gaaggagatc gccgaggcgt acctgggccca cccggtgacc aacgcggtga 11460
tcaccgtgcc ggcctacttc aacgactcgc agcggcaggc caccaaggac gcgggggtga 11520
tcgcggggct gaacgtgctg aggatcatca acgagcccac ggccgccc atgcctacg 11580
gcctggacag gacggcaag ggggagcgc acgtgctcat ctttgatctg ggagggggca 11640
cgttcgacgt gtccatcctg acgatcgacg acggcatctt cgaggtgaag gccacggccg 11700
gggacacgca cctggcggg gaggacttcg acaacaggct ggtgaaccac ttctggagg 11760
agttcaagag gaagcacaag aaggacatca gccagaacaa gcggccgtg aggccgtgc 11820
gcacccgcatg cgagcgggcc aagagaacct tgtctccag cacccaggcc agcctggaga 11880
tcgactccct gttcgagggc atcgacttct acacgtccat caccaggcgtg cggttcgagg 11940
agctgtgctc cgacctgttc cggagcaccc tggagccgt ggagaaggcg ctacgcacg 12000
ccaagctgga caaggcgccag atccacgacc tggctctggt gggggctcc acccgcatcc 12060
ccaagggtgca gaagctgctg caggacttct tcaacggcgtg cgacctaacc aagagcatca 12120
accccgacga ggcggtgcc tacggggcgg cggcggcggc ggccatcctg atgggggaca 12180
agtcggagaa cgtgcaggac ctgctgtgc tggacgtggc tcccctgtcg ctggactgg 12240
agacggccgg aggccgtgatg accgccttga tcaagcgcaaa ctccaccatc cccacgaagc 12300
agacgcagat cttcaccacc tactcgacca accagccggg cgtgctgatc caggtgtacg 12360
agggcgagag ggccatgacg cgggacaaca acctgctggg ggcgttcgag ctgagcggca 12420
tcccggccggc cccgcgggggt gtccccaga tcgaggtgac ctgcacatc gacgcaatg 12480
gcacccctgaa cgtcacggcc acggacaaga gcacggccaa ggccaaacaag atcaccatca 12540
ccaacgacaa gggccggctg agcaaggagg agatcgagcg catggcgtc gagggcgaaa 12600
agtacaaggc ggaggacgag gtccagcgtcg agagggtgtc tgccaaacac ggcgtggagt 12660
cgtacgcctt caacatgaag agcgccgtgg agatgaggg gctgaaggc aagatcagcg 12720
aggcggacaa gaagaaggtg ctggacaagt gccaggaggt gatttcctgg ctggacggca 12780
acacccctggc ggagaaggac gagtttgcgc acaagaggaa ggagctggag caggtgtgt 12840
accccatcat cagcagactg taccaggggg cggccggccc cggggctggc ggctttgggg 12900
ctcaggccc taaagggggc tctgggtctg gcccccacat tgaggaggtg gactagggc 12960

cttactttt gtctgtctgt agtagacc 12988

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 2

aaccccatca tcagcagact 20

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 3

cacagaagca aacatcaactc g 21

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 4

gcattgccca taaaggaaga 20

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 5

tggaagggtga gaaagggttgg 20

<210> 6

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 6

acgtcggtga tcctgtggg 19

<210> 7

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 7

tatctcgag ccgaaaagg 19

<210> 8

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide to act as a primer for PCR

<400> 8

ggtctactac agacagacaa aaagtaagg 29